

Indoor Multimode Optical Cable Fiber



Overview

Indoor Multimode Fiber Optic Cable Assemblies – Mouser Indoor Multimode Fiber Optic Cable Assemblies are available at Mouser Electronics. Mouser offers inve.

Key Takeaways

Indoor multimode fiber optic cables are designed for high-speed data transmission within buildings, supporting OM1, OM2, OM3, and OM4 fiber types with plenum or riser-rated jackets for safe indoor installation.

Overview

Indoor multimode fiber optic cables are used for intra-building networks, including data centers, LANs, telecommunications rooms, and backbone connections. They are optimized for short to medium distances and high-bandwidth applications, typically supporting speeds from 10Gbps up to 100Gbps depending on the fiber type and wavelength. Fiber Types and Core Sizes OM1: 62.

5/125 μm , suitable for legacy 1Gbps networks over short distances. OM2: 50/125 μm , supports 1-10Gbps over moderate distances. OM3: 50/125 μm , laser-optimized for 10Gbps up to 300 meters at 850nm, often used in plenum-rated indoor installations.

OM4: 50/125 μm , enhanced laser-optimized fiber for 10-40Gbps, supporting longer distances and higher bandwidth, ideal for modern data centers.



Construction and Ratings

Indoor multimode cables are available in tight-buffered or loose-tube constructions. Key features include: Plenum-rated (OFNP/OFNR): Suitable for air-handling spaces, low-smoke and flame-retardant. Riser-rated: For vertical runs between floors, less stringent than plenum.

Armored options: Steel or aluminum armor for rodent protection and mechanical durability. Strength members: Aramid yarn (Kevlar®) for tensile strength and durability during installation.

Strand Count and Jacket

Indoor multimode cables come in 2, 6, 12, 24, or more strands, allowing flexible deployment for patch panels and backbone connections. Jackets are typically PVC, LSZH, or FEP, with color coding (aqua for OM3/OM4) for easy identification.

Performance Characteristics

Wavelengths: 850nm and 1300nm for multimode operation. Bandwidth: OM3 typically 2000 MHz·km at 850nm; OM4 higher for extended reach. Bend-insensitive fibers: Maintain signal integrity in tight spaces and sharp bends.

Maximum attenuation: Around 3 dB/km at 850nm for OM3/OM4 fibers.

Applications

Data centers and high-performance computing networks.

Enterprise LA

Ns and campus backbone cabling. Fiber-to-the-desk or fiber-to-the-office deployments.

CCT

V, telecommunication, and multimedia networks.

Installation Considerations

Use pulling eyes or proper cable management to avoid exceeding minimum bend radius. Ensure plenum or riser rating compliance with local fire codes. Tight-buffered cables are easier for termination and patching, while loose-tube cables are better for longer runs or high fiber counts.

Indoor multimode fiber optic cables provide high-speed, reliable, and safe connectivity for modern building networks, with options tailored for plenum spaces, armored protection, and various strand counts to meet diverse installation needs.

Article Content

Indoor Multimode Fiber Optic Cable Assemblies – Mouser

Indoor Multimode Fiber Optic Cable Assemblies are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Indoor Multimode Fiber Optic Cable Assemblies.

Fiber Indoor Cables

Explore CommScope's Fiber Optic Cables for reliable connectivity. Our high-quality fiber optic cabling solutions ensure seamless data transmission.

Fiber Optic Indoor/Outdoor Cables

Fiber Optic Cables For Indoor/Outdoor Applications Fiber Optic Cables For Indoor/Outdoor Applications These are cables that are designed to meet both the

The Ultimate Guide to Indoor Fiber Cable in 2025

Explore Indoor Fiber Cable in 2025: types, uses, and installation tips. Find top indoor fiber optic solutions for reliable, high-speed networks with EPCOM.

Fiber Optic Cable

Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored, burial, and ruggedized designs are suited to a host of industrial environments.

Indoor/Outdoor Pre-Terminated Multifiber Optic Cables

FS offers pre-terminated multifiber optic cable assemblies at wholesale price that save much installation costs and times for indoor/outdoor fiber optic cabling systems.

Fiber Optic Indoor/Outdoor Cables

Our indoor/outdoor cables meet rigorous outdoor environments and can be routed indoors where flame rating applies, eliminating transition splices.

Tight Buffer Fiber Optic Cable, OM4, OFNP Indoor/Outdoor

OM4 Multimode 50/125 Indoor/Outdoor Plenum OFNP Distribution Fiber Optic Cable with Corning Glass This OM4 plenum distribution fiber cable is composed of 2-24 colored tight buffers, aramid yarn, and

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Verified Reviews

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions. See who tops the list for quality and innovation.

6M FC-LC Simplex Multimode Fiber Optic Cable 50/125 Indoor/Outdoor

6 Meter Length Multimode (50/125) Indoor/Outdoor FC-LC Simplex Single strand Fiber Optic Cable.

Quality Bulk Multimode & Single Mode Fiber Optic Cables

Bulk Fiber Optic Cable - Multimode & Singlemode Shop our diverse range of bulk fiber optic cables, tailored for various networking needs. We provide both single

what does fiber optic cable look like: 7 Powerful Facts

Discover what does fiber optic cable look like with photos, color codes, and expert tips for easy identification and safe handling.

Fiber Optic Cable

Explore our Fiber Optic Cable collection, featuring main products like Optical Splitter, Fiber Patch Cord, and 695+ more items from Hai'an Huijue Network Communication Equipment Co., Ltd. on Alibaba .

Cost of Fiber Optic Cable: Pricing Guide (2026)

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

Fiber Optic Cable: Single & Multimode Cables By The

Fiber Optic Cable by the Foot We offer fiber optic cable by the foot in a variety of fiber types and strand counts to meet your network installation needs. Whether

Single Mode vs. Multimode Fiber Optic Cables

There are two main types of fiber optic cables: single mode and multimode. Although they can do the same job in some instances, the different construction methods make each of them better

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

